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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/752,444	01/03/2001	Keisuke Imai	0165-278	1417	
75	590 03/19/2002				
Thomas W. Cole			EXAMINER		
	ro Drive, Suite 800		LAM, THANH		
McLean, VA 22102			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 03/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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F	Application No. 09/752,444	Applicant(s)	lmai et	al.
Office Action Summary	Examiner Thanh Lam	1	Art Unit 2834	
The MAILING DATE of this communication appears	on the cover sheet wit	th the corres	pondence addı	ess
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET THE MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE3_	MONTH	(S) FROM	
 Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communically like the period for reply specified above is less than thirty (30) days be considered timely. If NO period for reply is specified above, the maximum statutory communication. Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). 	cation. s, a reply within the statu period will apply and will y statute, cause the appli	Itory minimum Expire SIX (6	of thirty (30) d MONTHS from	lays will the mailing date of this ED (35 U.S.C. § 133).
Status				
1) Responsive to communication(s) filed on				<u> </u>
2a) ☐ This action is FINAL . 2b) ☒ This ac	tion is non-final.			
3) Since this application is in condition for allowance closed in accordance with the practice under Ex pa				ne merits is
Disposition of Claims				
4) 💢 Claim(s) <u>1-4</u>		is/are	pending in th	e application.
4a) Of the above, claim(s)		is/are	e withdrawn f	rom consideration.
5)	is/are allowed.			
6) 💢 Claim(s) 1-4	is/are rejected.			
	is/are objected to.			
·	are subject to restriction and/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are	objected to by the E	xaminer.		
11) The proposed drawing correction filed on			b) disappro	ved.
12) The oath or declaration is objected to by the Exam		• •		
Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign p a) All b) Some* c) None of:	priority under 35 U.S.C	C. § 119(a)-	(d).	
1. 🛛 Certified copies of the priority documents have	ve been received.			
2. Certified copies of the priority documents have	ve been received in A	pplication N	o	-
 Copies of the certified copies of the priority of application from the International Bure *See the attached detailed Office action for a list of the 	eau (PCT Rule 17.2(a)).	this National	Stage
14) Acknowledgement is made of a claim for domestic			e).	
Attachment(s)	100 -		`	8
 15) X Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	18) Interview Summary (I			
Information Disclosure Statement(s) (PTO-1449) Paper No(s).	19) Notice of Informal Par 20) Other:	пент Аррисатюп (F10-102)	
the state of the s				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (figure 3 of the application) in view of Sakata.

Regarding claims 1 and 4, Prior art discloses a roll connector structure for a vehicle including a stator side casing (118) which is fixed to a steering column side member (steering shaft page 2, line 11 of the specification), a rotor side casing (120) which is mounted to the stator

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side casing and rotates integrally with a steering wheel (102), and a cable which is accommodated between the stator side casing and the rotor side casing in a state of being wound in spiral manner (page 2, line 20-22 of the application specification). However, prior art does not disclose at least one steering switch is connected to the rotor side casing without wiring.

Sakata discloses at least one steering switch (3) is connected to the rotor side casing (4) without wiring.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the rotary connector and steering switch of Prior art to accommodate the arrangement with the steering switch is connected to the rotor as disclosed by Sakata, the arrangement would provide the roll connector structure with ease to assembly.

Regarding claim 2, it is noted that prior art discloses the rotor side casing has at least one connector (124), and the at least one steering switch has a plug portion (114) corresponding to the at least one connector (122).

Regarding 3, it is noted that Sakata discloses one portion of the at least one steering switch (3) is formed integrally with the rotor side casing (4), and other portion (8) of the at least one steering switch is connected to the one portion of the at least one steering switch.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (703) 308-7626. The fax phone number for this Group is (703) 305-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0656.

Thanh Lam

Patent Examiner